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1 Physical Experimentation with Prefetching Helper Threads on Intel's Hyper-Threaded Processors ■

Dongkeun Kim, Steve Shih-wei Liao, Perry H. Wang, Juan del Cuvillo, Xinmin Tian, Xiang Zou, Hong Wang, Donald Yeung, Milind Girkar, John P. Shen

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Full text available: 🔲 pdf(264.47 KB) Additional Information: full citation, abstract, citings, index terms

> Pre-execution techniques have received much attention as aneffective way of prefetching cache blocks to tolerate the ever-increasingmemory latency. A number of pre-execution techniquesbased on hardware, compiler, or both have been proposed andstudied extensively by researchers. They report promising resultson simulators that model a Simultaneous Multithreading (SMT)processor. In this paper, we apply the helper threading idea ona real multithreaded machine, i.e., Intel Pentium 4 processor withHyp ...

2 Speculative multithreaded processors ▬

Pedro Marcuello, Antonio González, Jordi Tubella

July 1998 **Proceedings of the 12th international conference on Supercomputing**

Publisher: ACM Press

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> **Keywords:** control speculation, data dependence speculation, data speculation, dynamically scheduled processors, multithreaded processors

3 Clustered speculative multithreaded processors ▬

Pedro Marcuello, Antonio González

May 1999 **Proceedings of the 13th international conference on Supercomputing**

Publisher: ACM Press

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> **Keywords:** clustered processors, control-flow speculation, data dependance speculation, data value speculation, dynamically scheduled processors, simultaneous multithreaded